

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1.-9. (Cancelled)

10. (Previously Presented) A method of producing two or more simultaneous data calls for one mobile station in a mobile communication system, comprising

assigning only one common traffic channel to two or more simultaneous mobile communication network calls of the mobile station,

sharing the capacity of the common traffic channel between the simultaneous calls,
detecting that the mobile communication network is temporarily unavailable to allocate more transmission capacity or the required transmission capacity to the common traffic channel when a new call or connection is established,

allocating the requested capacity to transparent calls or connections and the remaining capacity to non-transparent calls or connections when the mobile communication network is temporarily unable to allocate more transmission capacity or the requested amount of transmission capacity to the common traffic channel, and

allocating the requested capacity to non-transparent calls or connections later when capacity becomes available in the network.

11.-26. (Cancelled)

27. (Previously Presented) A mobile communication network, comprising
means for establishing one traffic channel of the mobile communication network for two or more simultaneous mobile communication network calls of a mobile station,

means for sharing the capacity of said common traffic channel between said simultaneous calls,

means for detecting that the mobile communication network is temporarily unable to allocate more transmission capacity or the required amount of transmission capacity to the traffic channel when a new call or connection is set up,

means for allocating the requested capacity to transparent calls or connections and the remaining capacity to non-transparent calls or connections when the mobile communication network is temporarily unable to allocate more transmission capacity or the required amount of transmission capacity to the common traffic channel, and

means for allocating the requested capacity to non-transparent calls or connections later when capacity becomes available in the network.

28. (Cancelled)

29. (Cancelled)

30. (Previously Presented) A mobile communication network, comprising
means for establishing one traffic channel of the mobile communication network for two or more simultaneous mobile communication network calls of a mobile station,

means for sharing the capacity of said common traffic channel between said simultaneous calls,

means for negotiating between the mobile station and a network about the channel capacity needed for each call or connection, and

means adjusting dynamically the capacity of the common traffic channel,

means for establishing a separate subchannel for each call or each connection of each call in said traffic channel,

means for establishing one radio link protocol link or link access control protocol link over the traffic channel between the mobile station and the interworking function,

means for establishing a logical link for each call or each connection of each call inside said radio link protocol link or link access control protocol link, and

means for transmitting the user data of each call or each connection of each call via the representative logical link by transmitting the data packets of a packet-switched call interleaved with the protocol frames of the radio link protocol or link access control protocol or encapsulated in the protocol frames.

31.-37. (Cancelled)

38. (Previously Presented) A network element for a mobile communication network, comprising

means for establishing one traffic channel of the mobile communication network for two or more simultaneous mobile communication network calls of a mobile station,

means for sharing the capacity of said common traffic channel between said simultaneous calls,

means for detecting that the mobile communication network is temporarily unable to allocate more transmission capacity or the required amount of transmission capacity to the traffic channel when a new call or connection is set up,

means for allocating the requested capacity to transparent calls or connections and the remaining capacity to non-transparent calls or connections when the mobile communication network is temporarily unable to allocate more transmission capacity or the required amount of transmission capacity to the common traffic channel, and

means for allocating the requested capacity to non-transparent calls or connections later when capacity becomes available in the network.

39. (Previously Presented) A network element for a mobile communication network, comprising

means for establishing one traffic channel of the mobile communication network for two or more simultaneous mobile communication network calls of a mobile station,

means for sharing the capacity of said common traffic channel between said simultaneous calls,

means for adjusting dynamically the capacity of the common traffic channel according to the required channel capacity defined by means of negotiation between the mobile station and the network for each call or each connection of each call,

means for establishing a separate subchannel for each call or each connection of each call in said traffic channel, means for establishing one radio link protocol link or link access control protocol link over the traffic channel between the mobile station and the interworking function,

means for establishing a logical link for each call or each connection of each call inside said radio link protocol link or link access control protocol link, and

means for transmitting the user data of each call or each connection of each call via the respective logical link by transmitting the data packets of a packet-switched call

interleaved with the protocol frames of the radio link protocol or link access control protocol or encapsulated in the protocol frames.

40. (New) A method according to claim 10, wherein the common traffic channel comprises a common TDMA or CDMA traffic channel.

41. (New) A mobile communication system according to claim 27, wherein the common traffic channel comprises a common TDMA or CDMA traffic channel.

42. (New) A mobile communication network according to claim 30, wherein the common traffic channel comprises a common TDMA or CDMA traffic channel.

43. (New) A network element according to claim 38, wherein the common traffic channel comprises a common TDMA or CDMA traffic channel.

44. (New) A network element according to claim 39, wherein the common traffic channel comprises a common TDMA or CDMA traffic channel.